

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14539-005002	Application No. 10/729,880
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Katsunari Tezuka et al.	
		Filing Date December 5, 2003	Group Art Unit <del>1623</del> 1644

**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
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**Foreign Patent Documents or Published Foreign Patent Applications**

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
I.O./	AA	WO 98/30232	7/16/1998	WIPO				

**Other Documents (include Author, Title, Date, and Place of Publication)**

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I.O./	AB	Iwai et al. (2002) "Amelioration of Collagen-Induced Arthritis by Blockade of Inducible Costimulator-B7 Homologous Protein Costimulation," J. Immunol., 169(8):4332-39

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12/05/2003

Sheet 1 of 5

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	AAA	AU 13320/99	04/12/1999	Australia				
	ABB	DE 19821060	04/15/1999	Germany				
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	AFF	Bajorath "A molecular model of inducible costimulator protein and three-dimensional analysis of its relation to the CD28 family of T cell-specific costimulatory receptors," J. MOL. MODEL. 5:169-176 (1999)
	AGG	Beier et al., "Induction, binding specificity and function of human ICOS," EUR. J. IMMUNOL., 30(12):3707-3717 (2000)
	AHH	Brodie et al., "LICOS, a primordial costimulatory ligand?," CURR. BIOL., 10(6):333-336 (2000)
	AII	Buonfiglio et al., "Characterization of a novel human surface molecule selectively expressed by mature thymocytes, activated T cells and subsets of T cell lymphomas," EUR. J. IMMUNOL., 29(9):2863-2874 (1999)
	AJJ	Buonfiglio et al., "The T cell activation molecule H4 and the CD28-like molecule ICOS are identical," EUR. J. IMMUNOL. 30(12):3463-3467 (2000)
	AKK	Cameron "Recent advances in transgenic technology" MOLECULAR BIOTECHNOLOGY 7:253-65 (1997)
	ALL	Chambers, "The expanding world of co-stimulation: the two-signal model revisited," TRENDS IN IMMUNOLOGY, 22(4):217-223 (2001)
	AMM	Cocks et al. "A novel receptor involved in T-cell activation," NATURE, 376:260-263 (July 20, 1995)
	ANN	Coyle et al., "The CD28-Related Molecule ICOS Is Required for Effective T Cell-Dependent Immune Responses," IMMUNITY 13(1):95-105 (2000)
	AOO	Dong et al., "Cutting Edge: Critical Role of Inducible Costimulator in Germinal Center Reactions," J. IMMUNOL., 166(6):3659-3662 (2001)
	APP	Dong, "ICOS co-stimulatory receptor is essential for T-cell activation and function," NATURE 409(6816):97-101 (2001)
/I.O./	AQQ	Gonzalo et al., "The Related Molecules CD28 and Inducible Costimulator Deliver Both Unique and Complementary Signals Required for Optimal T Cell Activation," J. IMMUNOL., 166(1):1-5 (2001)

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	ASS	Hanzawa et al., "Characteristics of a TTH1 antibody which blocks an unknown adhesion phenomenon," PROCEEDINGS OF THE JAPANESE SOCIETY FOR IMMUNOLOGY, Vol. 24, Abstract No. W17-13 (1994) [ORIGINAL JAPANESE AND ENGLISH LANGUAGE TRANSLATION]
	ATT	Heyeck et al. "Developmental regulation of a murine T-cell-specific tyrosine kinase gene, Tsk," PROC. NATL. ACAD. SCI. USA, Vol. 90, pp. 669-673 (1993)
	AUU	Houdebine "Production of pharmaceutical proteins from transgenic animals" J. BIOTECHNOL. 34:269-87 (1994)
	AVV	Hutloff et al., "ICOS is an inducible T-cell co-stimulator structurally and functionally related to CD28," NATURE, 397(6716):263-266 (1999)
	AWW	Ishikawa et al., "Prediction of the Coding Sequences of Unidentified Human Genes. X. The Complete Sequences of 100 New cDNA Clones from Brain Which Can Code for Large Proteins <i>in vitro</i> ," DNA RESEARCH, 5:169-176 (1998)
	AXX	Kappel et al. "Regulating gene expression in transgenic animals" CURRENT OPINION IN BIOTECHNOLOGY 3:548-53 (1992)
	AYY	Kopf et al., "Inducible Costimulator Protein (ICOS) Controls T Helper Cell Subset Polarization after Virus and Parasite Infection," J. EXP. MED., 192(1):53-61 (2000)
	AZZ	Kuchroo et al. "B7-1 and B7-2 costimulatory molecules activate differentially the Th1/Th2 developmental pathways: Application to autoimmune disease therapy," CELL, 80:707-718 (March 10, 1995)
	AAAA	Ling et al., "Cutting Edge: Identification of GL50, a Novel B7-Like Protein That Functionally Binds to ICOS Receptor," J. IMMUNOL., 164(4):1653-1657 (2000)
	ABBB	Mages et al., "Molecular cloning and characterization of murine ICOS and identification of B7h as ICOS ligand," EUR. J. IMMUNOL., 30(4):1040-1047 (2000)
	ACCC	Marguet et al. "cDNA Cloning for Mouse Thymocyte-activating Molecule," THE JOURNAL OF BIOLOGICAL CHEMISTRY, Vol. 267, No. 4, pp. 2200-2208 (1992)
	ADDD	McAdam et al., "Mouse inducible costimulatory (ICOS) molecule expression is increased by CD28 costimulation and regulates development of Th2 cells," FASEB JOURNAL, 14(6):A1169 (2000)
	AEED	McAdam, "ICOS is critical for CD40-mediated antibody class switching," NATURE 409(6816):102-105 (2001)
	AFFF	McAdam, "Mouse Inducible Costimulatory Molecule (ICOS) Expression Is Enhanced by CD28 Costimulation and Regulates Differentiation of CD4 <sup>+</sup> T Cells," J. IMMUNOL., 165(9):5035-5040 (2000)
	AGGG	Mueller, "T cells: A proliferation of costimulatory molecules," CURR. BIOL. 10(6):R227-R230 (2000)
	AHHH	Mullins et al. "Expression of the DBA/2J Ren-2 gene in the adrenal gland of transgenic mice" EMBO J., 8:4065-72 (1989)
	AIII	Mullins et al. "Fulminant hypertension in transgenic rats harbouring the mouse Ren-2 gene" NATURE, 344:541-44 (1990)
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	ALLL	Nojima et al. "The 4F9 antigen is a member of the tetra spans transmembrane protein family and functions as an accessory molecule in T cell activation and adhesion," CELLULAR IMMUNOLOGY, 152:249-260 (1993)
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	ANNN	Özkaynak et al., "Importance of ICOS-B7RP-1 costimulation in acute and chronic allograft rejection," NATURE IMMUNOLOGY 2(7):591-596 (2001)
	A000	Poster, Kyoto International Conference Hall, Takaragaike Sakyo-ku, Kyoto, JAPAN (November 30, 1994) [ORIGINAL JAPANESE AND ENGLISH LANGUAGE TRANSLATION]
	APPP	Redoglia et al., "Characterization of H4: a mouse T lymphocyte activation molecule functionally associated with the CD3/T cell receptor," EUR. J. IMMUNOL., 26(11):2781-2789 (1996)
	AQQQ	Riley et al., "ICOS Costimulation Requires IL-2 and Can Be Presented by CTLA-4 Engagement," J. IMMUNOL., 166(8):4943-4948 (2001)
	ARRR	Robert et al. "Antibody Cross-Linking of the Thymocyte-Specific Cell Surface Molecule CTX Causes Abnormal Mitosis and Multinucleation of Tumor Cells," EXPERIMENTAL CELL RESEARCH, Vol. 235, pp. 227-237 (1997)
	ASSS	Sato et al. (2000) "Up-regulation of inducible co-stimulator (ICOS) expression and its regulation of cytokine production in inflammatory bowel disease," GASTROENTEROLOGY, 118(4):A662
	ATTT	Sharpe "Analysis of lymphocyte costimulation <i>in vivo</i> using transgenic and 'knockout' mice," CURRENT OPINION IN IMMUNOLOGY, 7:389-395 (1995)
	AUUU	Sigmund "Are studies in genetically altered mice out of control?" ARTERIOSCLER. THROMB. VASC. BIOL., 20:1425-29 (2000)
	AVVV	Swallow et al., "B7h, a Novel Costimulatory Homolog of B7.1 and B7.2, Is Induced by TNF $\alpha$ ," IMMUNITY, 11(4):423-432 (1999)
	AWWW	Tafari et al., "ICOS is essential for effective T-helper-cell responses," NATURE 409(6816):105-109 (2001)
	AXXX	Tai et al. "A role for CD9 molecules in T cell activation," J. EXP. MED., 184:753-758 (August 1996)
	AYYY	Tamatani et al., "AILIM/ICOS: a novel lymphocyte adhesion molecule," INTERNATIONAL IMMUNOLOGY, 12(1):51-55 (2000)
	AZZZ	Tamatani et al., "Characteristics of an antibody which induces an ICAM-1-LFA-1-independent adhesion pathway," PROCEEDINGS OF THE JAPANESE SOCIETY FOR IMMUNOLOGY, Vol. 23, Abstract No. H-160 (1993) [ORIGINAL JAPANESE AND ENGLISH LANGUAGE TRANSLATION]
	AAAAA	Tezuka et al. "Identification and characterization of rat AILIM/ICOS, a novel T-cell costimulatory molecule, related to the CD28/CTLA4 family," BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, 276:335-345 (2000)
/I.O./	ABBBB	Tezuka et al., "Genetic cloning of a lymphocyte surface signal transduction molecule which induces an unknown adhesion phenomenon," PROCEEDINGS OF THE JAPANESE SOCIETY FOR IMMUNOLOGY, Vol. 24, Abstract No. W17-14 (1994) [ORIGINAL JAPANESE AND ENGLISH LANGUAGE TRANSLATION]

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/I.O./	AEEEE	Yoshinaga et al., "Characterization of a new human B7-related protein: B7RP-1 is the ligand to the co-stimulatory protein ICOS," INTERNATIONAL IMMUNOLOGY, 12(10):1439-1441 (2000)
/I.O./	AFFFF	Yoshinaga et al., "T-cell co-stimulation through B7RP-1 and ICOS," NATURE, 402(6763):827-832 (1999)

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	AQ	Campbell et al., "Separable effector T cell populations specialized for B cell help or tissue inflammation," NAT IMMUNOL. 2(9):876-81 (2001)
	AR	Chapoval et al., "B7-H3: a costimulatory molecule for T cell activation and IFN-gamma production," NAT IMMUNOL. 2(3):269-74 (2001)
	AS	Dong et al., "B7-H1, a third member of the B7 family, co-stimulates T-cell proliferation and interleukin-10 secretion," NAT. MED. 5(12):1365-9 (1999)
	AT	Eljaschewitsch et al., "Identification of a novel activation antigen on human CD4+ T cells," IMMUNOBIOLOG., 194(1-3):27 (1995)
/I.O./	AU	Goding, "Monoclonal Antibodies: Principles and Practice," 2 <sup>nd</sup> Edition, Academic Press, Orlando, Florida, Chapter 8, pages 281-293 (1986)

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	AW	Gonzalo et al., "ICOS is critical for T helper cell-mediated lung mucosal inflammatory responses," NAT IMMUNOL. 2(7):597-604 (2001)
	AX	Harlow and Lane, "Antibodies: A Laboratory Manual," Cold Spring Harbor Laboratory, page 285 (1988)
	AY	Hutloff et al., "Identification and initial characterization of a novel T cell-specific cell surface activation antigen," IMMUNOBIOLOGY, 197(2-4):172 (1997)
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	ABB	Lamhemedi-Cherradi et al., "Further mapping of the Idd5.1 locus for autoimmune diabetes in NOD mice," DIABETES 50(12):2874-8 (2001)
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	AAE	Linsley, "T cell activation: you can't get good help," Nat Immunol. 2(2):139-40 (2001)
	AFF	Liu et al., "B7H costimulates clonal expansion of, and cognate destruction of tumor cells by, CD8(+) T lymphocytes in vivo," J EXP MED. 194(9):1339-48 (2001)
	AGG	Lucia et al., "Expression of the novel T cell activation molecule hPH4 in HIV-infected patients: Correlation with disease status," AIDS RESEARCH AND HUMAN RETROVIRUSES 16(6):549-557 (2000)
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	AII	Nurieva et al., "Inducible costimulator is essential for collagen-induced arthritis," J. CLIN. INVEST. 111(5):701-06 (2003)
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	ALL	Pech et al., "A large section of the gene locus encoding human immunoglobulin variable regions of the kappa type is duplicated," J. Mol Biol. 183(3):291-9 (1985)
	AMM	Pound, "A new T-helper cell subset?" Trends Immunol. 22(4):182-3 (2001)
	ANN	Richter et al., "Tumor necrosis factor- $\alpha$ regulates the expression of inducible costimulator receptor ligand on CD34+ progenitor cells during differentiation into antigen presenting cells," J. OF BIOLOGICAL CHEM. 276(49):45686-45693 (2001)
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	APP	Sakamoto et al., "AILIM/ICOS: its expression and functional analysis with monoclonal antibodies," HYBRIDOMA AND HYBRIDOMICS, 20(5):293-303 (2001)
	AQQ	Schwartz, "Immunology. It takes more than two to tango," NATURE 409(6816):31-2 (2001)
/I.O./	ARR	Sperling et al., "ICOS costimulation: It's not just for TH2 cells anymore," NAT IMMUNOL. 2(7):573-4 (2001)
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	ATT	Sporici et al., "ICOS ligand costimulation is required for T-cell encephalitogenicity," CLIN IMMUNOL. 100(3):277-88 (2001)
	AUU	Sporici et al., "Costimulation of memory T-cells by ICOS: a potential therapeutic target for autoimmunity?" CLIN IMMUNOL. 100(3):263-9 (2001)
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	AXX	Tomlinson et al., "The repertoire of human germline VH sequences reveals about fifty groups of VH segments with different hypervariable loops," J. Mol. Biol. 227(3):776-98 (1992)
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